5(3) AUTHORS:

Petrov, A. D., Zakharov, Ye. P.

911101°1 C 2014 E 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1

SOV/153-2-3-14/29

TITLE:

Synthesis of Alkyl Benzenes by the Grignard-Wurtz Reaction With

Hydrocarbons as Solvents Instead of Ether

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Khimiya i khimicheskaya

tekhnologiya, 1959, Vol 2, Nr 3, pp 384-389 (USSR)

ABSTRACT:

The authors investigated the effect of the solvent on the hydrocarbon yield in organomagnesium syntheses. In the reaction of tertiary chlorides with RMgX the ether, as nucleophilic solvent, inhibits the formation of a transition complex by blocking the access to magnesium atom. Moreover, a nucleophilic solvent renders the separation of hydrochloride from the tertiary chloride much easier since in the formation of the activated complex an oxonium compound of ether forms with the β -hydrogen atom of the tertiary chloride. As a result always a considerable portion of the corresponding olefin may be found in the reaction products. The use of more strongly basic solvents instead of ether is bound in this case to lead to higher yields in the desired products. Thus the use of n-heptane as solvent in the reaction of benzyl magnesium chloride with some tertiary chlorides leads to the formation of alkyl benzenes (C14 to620)

Card 1/4

Synthesis of Alkyl Benzenes by the Grignard-Wurtz SOV/153-2-3-14/29 Reaction With Hydrocarbons as Solvents Instead of Ether

with high yields:

CH₃ $C_{6}H_{5}-CH_{2}MgC1 + C1-C_{5}-CH_{2}-CH_{5}-CH_{3}$ $C_{6}H_{5}-CH_{2}MgC1 + C1-C_{5}-CH_{2}-CH_{5}-CH_{3}$ CH_{3} CH_{3} CH_{3} $CH_{5}-CH_{2}-CH_{2}-CH_{2}-CH_{3}$ CH_{3} $CH_{5}-CH_{2}-CH_{2}-CH_{3}-CH_{3}$ CH_{3} CH_{5} $CH_{5}-CH_{2}-CH_{3}-CH_{3}-CH_{3}$ CH_{5} $CH_{5}-CH_{2}-CH_{3}-CH_{3}-CH_{3}$ CH_{5} $CH_{5}-CH_{2}-CH_{3}-CH_{3}-CH_{3}$ CH_{5} $CH_$

Card 2/4

Synthesis of Alkyl Benzenes by the Grignard-Wurtz SOV/153-2-3-14/29 Reaction With Hydrocarbons as Solvents Instead of Ether

。 《大學》(1986年) 1987年 - 1987年 -

Freydlin, Nogin, and Nesmeyanov pointed to a similar interaction in the chlorocarbonic acid molecule (Ref 6). In an experimental part the course of the seven syntheses is exactly described. One of the syntheses was made by T. L. Krasnova. The physical constants of the products obtained are given. They were computed according to the method by Tatevskiy (Ref 12). Table 1 shows the properties of the synthesized alkyl benzenes. The alkyl benzenes obtained were hydrogenated to the corresponding alkyl cyclohexanes and their properties were investigated. Table 2 gives the properties of these alkyl cyclohexanes. The solidification temperatures were determined according to GOST 1533-42. The determination of the heats of combustion were made in the NII imeni Baranov by combustion in the

Card 3/4

Synthesis of Alkyl Benzenes by the Grignard-Wurtz SOV/153-2-3-14/29 Reaction With Hydrocarbons as Solvents Instead of Ether

calorimetric bomb according to GOST 5080-55. There are 1 figure, 2 tables, and 12 references, 6 of which are Soviet.

ASSOCIATION:

Moskovskiy khimiko-tekhnologicheskiy institut imeni D. I. Mendeleyeva - Kafedra tekhnologii gaza i zhidkogo topliva (Moscow Institute of Chemical Technology imeni D. I. Mendeleyev - Chair for the Technology of Gas and Liquid Fuels)

SUBMITTED:

May 12, 1958

Card 4/4

ZAKHAROV, Ye. P.: Master Chem Sci (diss) -- "Metallorganic synthesis of alkyl benzenes from C14 to C22". Moscow, 1958. 11 pp (Min Higher Educ USSR, Moscow Order of Lenin Chemicotechnological That im D. I. Mendeleyev), 150 copies (KL, No 3, 1959, 108)

.PETROV, A.D.; ZAKHAROV, Ye.P.; KRASNOVA, T.L.

Synthesis of alkybensenes of $C_{14} - C_{20}$ composition by the Grignard -Wurtz reaction in an etherless medium. Zhur.ob.khim. 29 no.1:49-55 Ja 159. (MIRA 12:4)

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni D.I. Mendeleyeva.
(Benzene)
(Chemistry, Organic-Synthesis)

501/79-29-1-11/74 AUTHORS: Petrov, A. D., Zakharov, Ye. P., Krasnova, T. L.

Synthesis of Alkyl Benzenes of the Composition $c_{14}^{-c}c_{20}^{-}$ in the TITLE:

Grignard- Wuertz Reaction in Ether-Free Medium alkilbenzolov sostava C₁₄-C₂₀ po reaktsii Grin'yara-Vyurtsa v

HEIPEN TREUDUNG TE EUROPEN DER SEINE FERNESEN DER ERFENSTER FRANK FRANK EINE EINE FINNE FOR DER VERKERE

PERIODICAL: Zhurnal obshchey khimii, 1959, Vol 29, Nr 1, pp 49-55 (USSR)

In the previous paper (Ref 1) the authors had found that re-ABSTRACT: actions of some magnesium aryl halides with tertiary alkyl

chlorides in n-heptane in the Griguard-Wuertz reaction at 30-33° permits a considerable increase of the yield in alkyl benzenes as compared to the same reaction in ether. This is the way they chose for several reactions of magnesium benzyl chloride with ramified tertiary chlorides and for the synthesis of eight new alkyl benzenes (formulae I-VIII). The relatively high yields give evidence of the fact that the side reaction, the dehydrochlorination of the ramified tertiary chloride which

usually takes place in connection with the Grignard-Wuertz re-

action and which decreases the yield in the normal condensation product, is suppressed in this case. In the case of condensation

Card 1/3

Synthesis of Alkyl Benzenes of the Composition C₁₄-C₂₀ in the Grignard-Weertz Reaction in Ether-Free Medium

with magnesium benzyl chloride among 8 chlorides 7 were used, CH.

CH₃-CH-CH₂-CC1 (IX), where R = CH₃, C₂H₅, iso-C₃H₇, n.-C₃H₇,

iso-C₄H₉, n.-C₄H₉, CH₂C₆H₅. The results obtained lead to a few conclusions concerning the dependence of the yields on the structure of the initial products. The hydrocarbon yield in this absence of the σ,σ-conjugation of the C-Cl and C-H bindings in the molecule of the initial alkyl halide, in which connection the substitution of ether in the above reaction by a hydro-carbon solvent is of importance in the second stage of reaction. There are 2 tables and 18 references, 5 of which are

Card 2/3

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963610005-0"

SOV/79-29-1-11/74

Synthesis of Alkyl Benzenes of the Composition C₁₄-C₂₀ in the Grignard-Wuertz Reaction in Ether-Free Medium

Moskovskiy khimiko-tekhnologicheskiy institut imeni D. I. ASSOCIATION:

Mendeleyeva (Moscow Chemotechnological Institute imeni

D. I. Mendeleyev)

December 26, 1957 SUBMITTED:

Card 3/3

CIA-RDP86-00513R001963610005-0" APPROVED FOR RELEASE: 09/19/2001

27/K/HARET, V.C. F

79-2-42/58

自2015年2月1日 1月7月年2月日 | 新生物自然表达对抗性的原则和原则和抗性的流性和抗性的原理。1925年1月2日

AUTHORS:

Petrov, A. D.; Sushchinskiy, V. L.; Zakharov, Ye. P.; Rogozhnikova, T. I.

TITLE:

Synthesis of Branched Aliphatic Hydrocarbons of the c_{10} - c_{15} Composition by the Grignard and Grignard-Wuertz Reactions (Sintez razvetvlennykh alifaticheskikh uglevodorodov sostava c_{10} - c_{15} po reaktsiyam Grin'yara

i Grin'yara-Vyurtsa)

PERIODICAL:

Zhurnal Obshchey Khimii, 1957, vol. 27, No 2, pp. 467-475 (U.S.S.R.)

ABSTRACT:

It was established experimentally that allyl halides even with highly branched ketones react normally. This fact makes this reaction suitable for the derivation of branched hydrocarbons having one or two quaternary carbon atoms. It is shown that Mg-halide isobutenyl reacts even with highly branched ketones resulting in the formation of homologous tertiary alcohols. The condensation of saturated tertiary alkyl fluorides was realized and by the Yavorskiy method using allyl halides. The fluorides compared with chlorides of analogous structure gave 300% more hydrocarbon yields. It is shown that the hydrocarbon yields (hydrocarbons synthesized by the Grignard-Wuertz method) increase by the introduction into the alkyl

Card 1/2

"APPROVED FOR RELEASE: 09/19/2001 CIA-RD

CIA-RDP86-00513R001963610005-0

79-2-42/58

Snythesis of Branched Aliphatic Hydrocarbons of the $\rm C_{10}$ - $\rm C_{15}$ Composition by the Grignard and Grignard-Wuertz Reactions

halides a multiple bond in beta-position relative to the halide-carbon bond (in the case of sigma, pi - conjugation) as well as in the case of sigma, sigma-conjugation.

The higher yields in the case of fluorides are explained mainly by their greater activity because the energy of the C-F bond is 102 cal whereas the energy of the C-Cl bond is only 78 cal.

There are 19 references, of which 9 are Slavic

ASSOCIATION: Moscow Chemical-Technological Institute imeni D. I. Mendeleyev

PRESENTED BY:

SUBMITTED: March 9, 1956

AVAILABLE: Library of Congress

Card 2/2

ZAKHAROV, YE P.

79-11-16/56

AUTHORS:

Petrov, A. D. , Zakharov, Ye. P.

TITLE:

The Synthesis of Some Alkylbenzenes and Alkyleyclchexanes of the Formula C_{14} – C_{15} (Sintez nekotorykh alkilbanzolov i alkiltsiklogeksanov sostava C_{14} – C_{15})

PERIODICAL:

Zhurnal Obshchey Khimii, 1957, Vol. 27, Nr 11, pp.2990-2993 (USSR)

ABSTRACT:

In the synthesis hitherto made of alkylbenzenes with a branched parafrin-chain in the presence of aluminum-chloride chiefly tertiary alcohols or haloid alkyls were used for alkylation, but only low-molecular alcohols gave good yields. When , e.g., in the alkylation of benzene with tertiary butyl alcohol the yield amounted to 70 %, on transition to dimethylisobutylcarbinol and dimethyl-tert.-butylcarbinol it sank to 38 and 7 %. Besides there exists the absolute danger that upon increase in the molecular weight of the tertiary alcohols the purity of the hydrocarbons as final products becomes problematic in view of the high isomerizing quality of aluminum-chloride. The first performed synthesis of the alkylbenzenes by condensation of bromobenzene with tertiary chloralkyls according to Würtz-Fittig only led to diphenyl- and olefinic hydrogens. Then the method by Würtz-Grignard was used for a synthesis of the alkylbenzenes. Thus Buu-Hois and P. Cagniant in this manner

Card 1/2

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963610005-0"

The Synthesis of Some Alkylbenzenes and Alkyloyclohexanes of the Formula c_{14}^{-c}

performed the condensation of tertiary chlorobutyl with Grignard's reagent and obtained 1,3-dimethyl-4-bromobenzene with a 17 % yield. According to the same scheme the authors in ethyl ether and heptane (see table I) obtained five hitherto unknown alkylbenzenes which by the hydrogenation in the autoclave at a temperature of 180-200°C over nickel were converted to the corresponding alkyl cyclohexanes. Otherwise the condensation of the tertiary haloid alkyls with bromobenzene and its homologues according to Würtz-Grignard gives a better yield of alkyl benzenes. There are 2 tables, and 10 references, 5 of which are Slavic.

ASSOCIATION: Moscow Chemico-Technological Institute

(Hoskovskiy khimiko - tekhnologicheskiy institut)

SUBMITTED: November 1, 1957

AVAILABLE: Library of Congress

1. Alkylbenzenes-Synthesis 2. Alkylcyclohexenes-Synthesis

Card 2/2

PETROV, A.D.; ZAKHAROV, Ye. P.

Reactivity of some tertiary chlorides and their derivatives in the Grignard reaction. Izv. vys.ucheb. zav.; khiz.i khim.tekh.3 no.2:301-304 '60. (MIRA 14:6)

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni D. I. Mendeleyeva, kafedra tekhnologii neftekhimicheskogo sinteza.
(Grignard reagents)
(Chlorides)

PETROV, A.D.; ZAKHAROV, Ye.P.; ZADOROZHNYY, N.A.; PONOMARENKO, V.A.

Synthesis of organosilicon monomers with nitrile groups. Zhur.

prikl.khim. 35 no.2:385-389 F :62. (MIRA 15:2)

(Silicon organic compounds) (Nitriles)

FAL'KOVSKIY, S.V., inzh.; ZAKHAROV, Ye.S., inzh.; VIGAK, V.M., inzh.;
YASKILKO, N.B., inzh.; BULIGIN, Yu.G., inzh.; PASICHNIK, I.I., inzh.

Using strain gauges for a full scale investigation of the steam pipes of the 200 Mw unit. Teploenergetika 9 no.1:32-36 Ja '62.

(MIRA 14:12)

1. Yuzhnoye otdeleniye Gosud stvemmogo tresta po organizatsii i ratsionalizatsii elektrostantsiy.

(Steam pipes—Testing)

(Boilers)

5/096/63/000/001/006/006 E194/E155 Zakharov, Ye.S., Engineer; Vigak, V.M., Engineer; Baryshnikov, A.P., Engineer; and Zamora, T.P., The measurement of stress at high temperature by means AUTHORS 1 Engineer. of self-compensating wire strain gauges PERIODICAL: Teploenergetika, no.1, 1963, 68-70 TITLE: In making strain gauge measurements at high and possibly varying temperatures, the main gauge is usually glued to the part and a compensating gauge, which allows for changes in gauge wire resistance with temperature, is usually fixed to an unstrained lamina of the same material as the part under stress. TEXT: This is not entirely satisfactory because, amongst other things, the two gauges do not receive the same heat treatment. the two gauges do not receive the same neat treatment. In one particular case of measurements at 300 °C there were errors of up to 8 kg/mm². A new procedure uses four strain gauges set at angles of 45° to one strain gauges set at angles to one another, alternate gauges being connected back-to-

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963610005-0"

back for temperature compensation. Two further gauges are at right angles to one another on a lamina of the material under test which

: Card 1/3

The measurement of stress at high ... 5/096/63/000/001/006/006

is fixed to the test part at its two ends so that strain in it is unidirectional. Formulae can then be derived for the principal stresses in the part under test. If it is known that the position investigated is only in tension, or if the part is flat, three pairs of strain gauges each mounted on a lamina fixed to the part at the two ends may be used to determine the principal stresses. This has the advantage that all the gauges can be fixed to the lamina under laboratory conditions so that correct heat treatment is ensured. The procedure was checked by making bending tests on a steel beam at various temperatures between 20 and 300 gave fair agreement between the known stress and the indications of the gauges. The error is attributed to increased stiffness of the metal where the strain gauge laminae were attached, and would not arise in large components. The tests showed that the strain-gauge lamina operated satisfactorily both in tension and compression on a flat part. Accordingly, there is no need to fix gauges directly to parts which are either flat or convex in tension. In other cases four strain gauges are fixed to the part at 45° to one another, together with a lamina with two gauges, in order to

"APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001963610005-0

The measurement of stress at high ... S/096/63/000/001/006/006 E194/E155

determine the principal stresses. Application of the method to stress determination in the flanges of a steam turbine is There are 3 figures.

ASSOCIATION: Yuzhnoye otdeleniye ORGRES (Southern Division of ORGRES)

Card 3/3

ZAKHAROV. Ye.S.; FAL'KOVSKIY, S.V.; VIGANK, V.M.; HATNER, A.V., kand. tekbo. nauk, red.

[Experience in the installation and adjustment of steampipes in blocks with 150 and 200 Mw. ratings] Iz opyta mentazha i naladki paroprovodov blokov moshchnost'iu 150 i 200 Mvt. Moskva, Biuro tekhn. informatsii, 1964. 36 p. (MIRA 18:5)

ZAKHAROV, Ye.S., insh.; VIGAK, V.M., insh.; BARYSHNIKOV, A.P., insh.; ZAHORA, T.P., insh.

Measurement of stresses at high temperatures using self-compensating wire-type resistance gauges. Teploenergetika 10 no.1:68-70 Ja '63. (MIRA 16:1)

1. Yuzhnoye otdeleniye Gosudarstvennogo tresta po organisatsii i ratsionalizatsii rayonnykh elektrostantsiy i setey.

(Strain gauges)

(Strains and stresses--- Measurement)

ACC NR. AT6035244

SOURCE CODE: UR/3043/66/000/005/0187/0196

AUTHOR: Dmitriyev, V. I.; Zakharov, Ye. V.

ORG: none

TITLE: Diffraction of a plane electromagnetic field on an ideally conducting halfplane immersed in a uniform half-space

SOURCE: Moscow. Universitet. Vychislitel'nyy tsentr. Sbornik rabot, no. 5, 1966. Vychislitel'nyye metody i programmirovaniye (Computing methods and programming), 187-196

TOPIC TAGS: electromagnetic field differention, ideal conductor, mathematic analysis

ABSTRACT: A rigorous solution of the problem on an ideally conducting half-plane located vertically in a uniformly conducting half space has been given. It has also been shown that the solution of the problem reduces to solving a certain integral equation a half-line with a nucleus depending on the difference of the arguments and their sum. A method of finding the analytical form of solving this equation has been proposed. The present article examines the general statement of the problem of diffraction of a plane electromagnetic field in an ideally conducting half-plane situated at an angle to the vertical in a homogeneous conducting half-space. The problem also reduces to solving an integral equation on the half-line, but with a nucleus of more complex aspect. Known methods are used to solve this integral equation and the paper computes the accuracy of the solution in relation to the angle of incline of the

ACC NR: AT6035244

half-plane and its depth. A two-layered medium is prescribed. When z>0 the air has wave number k_0 ; when z<0 there is a uniform space (conducting) with a wave number of k. In the conducting medium, disregarding the displacement currents, there is the wave number k=(1+i)k; time dependence is $e^{-i\omega t}$. At depth h in the conducting half-space is located an ideally conducting half-plane at angle α to the vertical. The primary field does not depend on coordinate x, hence the whole field is likewise independent of x, and consists of the sum of fields of two types, the electric and the magnetic. The problem involves boundary conditions which are solved by functions of components of these two fields; it is simplified by selecting a rectangular system of coordinates and solved in the form of potentials of the simple and dual layers. Orig. art. has: 14 formulas and 1 figure.

SUB CODE: 12, 20/ SUBM DATE: none/ ORIG REF: 002

Card 2/2

KOLBASOV, V.I.; BARDENSHTEYN, S.B.; DZHAGATSPANYAN, R.V.; ZAKHAROV, Ye.V.

Quantitative analysis of technical m-chloronitrobenzene by infrared absorption spectra. Zav.lab. 28 no.11:1326-1327 '62.

(MIRA 15:11)

(Mitrobenzene--Spectra)

MEL'NIKOV, N.N.; ZETKIN, V.I.; LIBMAN, B.Ya.; SOKOLOVA, Ye.M.; ZAKHAROV, Ye.V.; PARFENOV, A.I.; TRUNOV, P.P.; GOLYSHIN, N.M.

Organic fungicides as substitutes for copper-containing preparations. Khim. prom. no.10:28-30 0 '61. (MIRA 15:2) (Fungicides)

ZAKHAROV, Ye.V.; MASHKOV, I.V.

Accurate calculation of the holding capacity of gas traps and pools. Geol. nefti i gaza 5 no.4:34-38 Ap '61. (MIRA 14:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologo-razvedochnyy neftyanoy institut.

(Gas, Natural—Geology)

BURSHTAR, Mikhail Semuilovich: Prinimali uchastiye: ZAKHAROV, Ye.V., geolog; KAMENETSKIY, A.Ye., geolog. KHAIN, V.Ie., prof., doktor geologo-mineral.nauk, red.; DGLMATOV, P.S., vedushchiy red.; PRUMKIN, P.S., tekhn.red.

[Geology, and oil and gas potentials of platform provinces in Ciscaucasia and the Crimea] Geologiia i neftegasonosnost' platformennykh oblastei Predkavkas'is i Kryma. Pod red. V.3. Khaina. Leningrad. Gos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry. Leningr.otd-nie. 1960. 214 p.

(Grimes--Petroleum geology) (Grimes--Gas, Matural--Geology)
(Gaucasus, Morthern--Gas, Matural--Geology)
(Caucasus, Morthern--Gas, Matural--Geology)

ZETKIN, V.I.; DZHAGATSPANYAN, R.V.; ZAKHAROV, Ye.V.

Chlorination of nitrobenzens. Zhur. prikl. khim. 38 no. 10:
(MIRA 18:12)

1. Submitted July 19, 1963.

是这种种种的。这种种种的,但是是这种种种的,但是是这种种的,这种种种种的种种的,但是是是一种种的,但是是是一种的一种,可以是这种种的。

ACC NR. AP6036360 SOURCE CODE: UR/0387/66/000/011/0083/0099

AUTHOR: Zakharov, Ye. V.; Dmitriyev, V. I.

ORG: Mechanics and Mathematics Department, Moscow State University (Mekhaniko-matematicheskiy fakul'tet, Moskovskiy gosudarstvennyy universitet)

TITLE: Diffraction of electromagnetic waves on an ideally conducting half plane in a layered medium

SOURCE: AN SSSR. Izvestiya. Fizika Zemli, no. 11, 1966, 83-99

TOPIC TAGS: electromagnetic wave diffraction, wave diffraction, conducting half-plane problem, half-plane, diffraction problem. Colephose and solution in the colephose and solutions.

ABSTRACT: The diffraction of an electromagnetic field from an arbitrary point source on an ideally conducting half plane located in a layered medium is solved by the method proposed by V. I. Dmitriyev [Sb. rabot Vychislitcl'nogo tsentra, no. 5, 1966]. In the general case of the problem is reduced to the system of two Fredholm integral equations of the 2nd kind. It is shown that in the quasi-stationary case the method of successive approximations is applicable to this system. Thus, the approximate solution of the problem, which is limited by the first approximation of the solution of the integral equation system, can be written in a fairly simple analytical form. Orig. art. has: 29 formulas and 4 figures.

SUB CODE: 08/ SUBM DATE: 12May66/ ORIG REF: 007/ OTH REF: 005/ ATD PRESS:5106
Cord 1/1 UDC: 534.26.550.834

L 36hhh-66 EWP(j)/EMT(m) RM/JW
ACC NR: AP6018073 (4)

SOURCE CODE: UR/03/6/66/040/005/1121/1125

ORG: Moscow Institute of the Petrochemical and Gas Industry im. I. M. Gubkin (Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti)

TITLE: Reactivity of <u>nitrobenzene</u> and its chlorine derivatives. 1. Investigation of high temperature destructive chlorination

SOURCE: Zhurnal fizicheskoy khimii, v. 40, no. 5, 1966, 1121-1125

TOPIC TAGS: nitrobenzene, nitrogen compound, chlorinated aromatic compound, chlorinated organic compound

ABSTRACT: Destructive chlorination of nitrobenzene, and ortho-, para-, and metha-chloronitrobenzenes was studied in the 4030-6730K range in the presence and absence of activated carbon. Glass ampoules containing nitrocompounds with chlorine and carbon were charged at liquid nitrogen temperature, evacuated, and sealed. Subsequently, the ampoules were heated in thermostats for 30 minutes at reaction

Card 1/2

_UDC: 541.128

. 36444-66 CC NR: AP60180	73				•		1
emperature and he presence of e greater than hlorine ratio, y of various chrig. art. has:	activated coin the absented the greater loronitrobe	arbon, the nce of act was the r nzenes/was	rate of de ivated carb ate of dest	estructive cructive	e chlorin lower th chlorinat	ation was found e nitrobenzene ion. The react	to to
UB CODE: 07/	,	•	ORIG REF:	006/ 0	TH REF:	007	
						•	and the second s
		•			•		
				•		•	
				•			

ZAKHAROV, Ye.V.

Establishing a basis for determining optimal depths for extimating hypothetical reserves. Neftegaz. geol. i geofiz. no. 12:47-51 163. (MIRA 17:5)

l. Vsesoyuznyy nauchno-issledovatel'skiy geologorazvedochnyy neftyanoy institut, Moskva.

L 53028-65 ENT(d) IJP(c)	UR/3043/65/000/003/0317/0328
ACCESSION NR: AT5010213	18
AUTHOR: Dmitriyev, V. I.; Zakharov, Ye. J	16
TITLE: Solution of a certain class of int straight line	
SOURCE: Moscow. Universitet. Vychislite	l'nyy tsentr. Sbornik rabot, no. 3, 1965.
Vychislital nyve metody i programmirovani	ye (Computing methods cho programming);
317-328	
TOPIC TAGS: integral equation, Winer Hop	f equation, electromagnetic wave propaga-
tion, electromagnetic diffraction, strati	fied medium, approximate solution
tion, electromagnetic diffraction, strati	TIGO Mantemil obbiogram
tion, electromagnetic diffraction, strati	al equation of the form
tion, electromagnetic diffraction, strati	al equation of the form
tion, electromagnetic diffraction, strati ABSTRACT: The authors consider an integr $\varphi(t) - \int_{0}^{t} \{k(t-s) + p(t)\} dt$	al equation of the form (f, γ) φ(s) ds == f(f).
tion, electromagnetic diffraction, strati	al equation of the form (f, γ) φ(s) ds == f(f).
tion, electromagnetic diffraction, strati ABSTRACT: The authors consider an integr $\varphi(t) - \int_{0}^{t} \{k(t-s) + p(t)\} dt$	al equation of the form (f, γ) φ(s) ds == f(f).

"APPROVED FOR RELEASE: 09/19/2001 CIA

CIA-RDP86-00513R001963610005-0

. 53028-6	5.			L. Lindpile land	The same of the sa		
ACCESSION	mr:	AT501021	3				
	1 - 1/2						
			$\varphi(t)$ —	K (t s) p	(s) ds = f	(f).	(A)
			0			ta ta ta grant a	

APPROVED FOR RELEASE: 09/19/2001

in that the kernel contains the bounded and continuous additional function p(t, s). Equations of the type considered here are encountered in the solution of problems of diffraction in stratified media. A proof for the existence and uniqueness of the solution of Eq. (B), based on the proof presented by M. G. Kreyn (Uspekhi matem. nauk XIII, no. 5, 1958) for the solution of Eq. (A), is first presented. A particular case of Eq. (B), dealing with the diffraction of the electromagnetic waves by a conducting plate imbedded in a conducting half-space, is then evaluated as a particular example. The solution is obtained by successive approximations, the accuracy of which is briefly discussed. Orig. art. has: 2 figures and 39 formulas.

ASSOCIATION: Vychislitel'nyy tsentr Muskovskogo universitata (Computation Center, Moscow University)

SUBMITTED: 00

EKCL: 00

SUB CODE: NA, EM

NR REF SOV: CO4

OFFIERE OOF

Card 2/2 BAB

CIA-RDP86-00513R001963610005-0"

ZAKHAROV, Ye.V.; MORDVIN, N.I.

Geological and economic evaluation of the basic results of prospecting operations for oil in the countries of the Middle East. Neftegaz. geol. o geofiz. no.8:58-64 '63. (MIRA 17:3)

l. Vsesoyuznyy nauchno-issledovatel'skiy geologorazvedochnyy neftyanoy institut, Moskva.

BUYALOV, N.I.; ZAKHAROV, Ye.V.

Basis characteristics of the relief of the present—day surface of the basement of the U.S.S.R. in relation to an evaluation of the prospects for finding oil and gas.

Sov. geol. 7 no.4:24-39 Ap.64. (MIRA 17:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologorazvedochnyy neftyanoy institut.

EUYALOV, N.I.; ZAKHAROV, Ye.V.

Using the volumetric method to estimate the expected oil reserves. Gool. nefti i gaza 8 no.7:13-14 Jl 164.

(MIRA 17:12)

1. Vse soyuznyy nauchmo-issledovatel'skiy geologorazvedochnyy neftyanoy institut, Moskva.

ZETKIN, V.I.; ZAKHAROV, Ye.V.; KOLFSNIKOV, I.M.; PANCHENKOV, G.M.

Destructive high-temperature chlorination of nitrobenzene and some of the its derivatives. Zhur. fiz. khim. 39 no.5:1240-1242 My 165. (MIRA 18:8)

1. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti imeni I.M. Gubkina.

BUYALOV, N.1.; ZAKHAROV, Ye.V.

Structure of the present-day surface of the basement of the U.S.S.R. in connection with the isolation and hypothetical evaluation of ciland gas-bearing basins. Dokl. AN SSSR 9 no.1:42-43 Ja 165.

(MIRA 18:10)

1. Vsesoyuznyy nauchno-issledovatel'skiv neftyanov geologorazvedochnyy institut.

ZETKIN, V.I.; PANCHENKOV, G.M.; ZAKHAROV, Yo.V.; KOLESNIKOV, I.M.; DZHAGATSPANYAN, R.V.

Chlorination and sulfochlorination of organic compounds in apparatus with periodical and continuous action. Khim. prom. 41 no.10:733-734 0 '65. (MIRA 18:11)

ining terrologia de experiencia de companya de experiencia de companya de companya

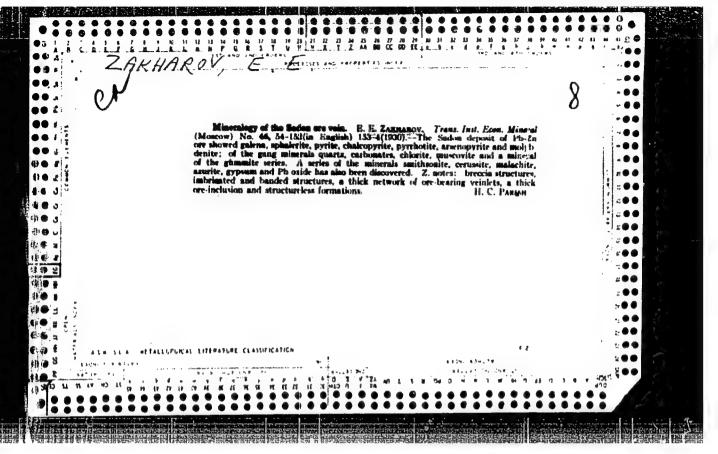
BUYALOV, N.I.; ZAKHAROV, Ye.W.

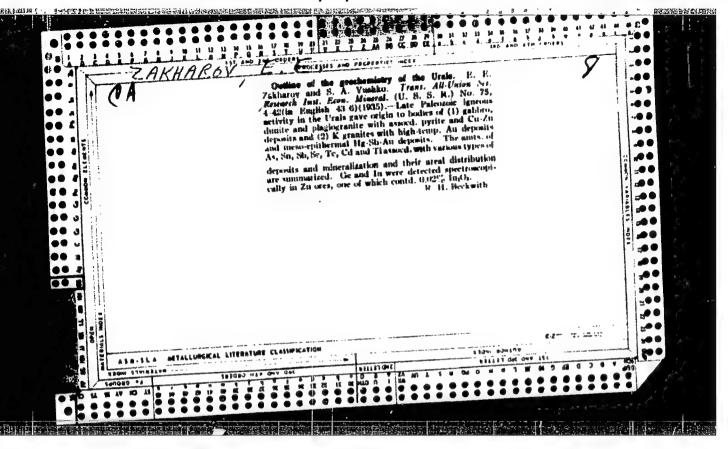
More exact representation of the method recommended for evaluating possible oil and gas reserves of the subgroup D1. Neftegaz. geol. i geofiz. no.11:25-28 *65. (MIRA 18:12)

1. Vsesoyuznyy nauchno-issledovateliskiy geologorasvedochnyy neftyanoy institut.

ZAKHAROV, E. J. au.

KUZNETSOV, E. A. Petrographical description of the walley of solution ovak, the mountain Kerabash Moskva, Isdanie Bauchno - tekhn. up. V. S.B.Kh., 1927. 65 p. (Union of Social Socialiet Republics. Vysshii sovet narodnogo khozlaietva. Nauchno-tekhnicheskoe upravlenie. Trudy, no. 184) Petrograficheskie... 1927.

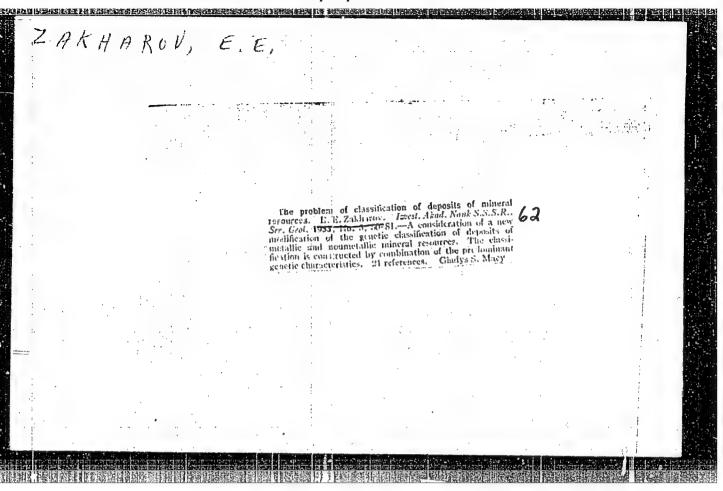




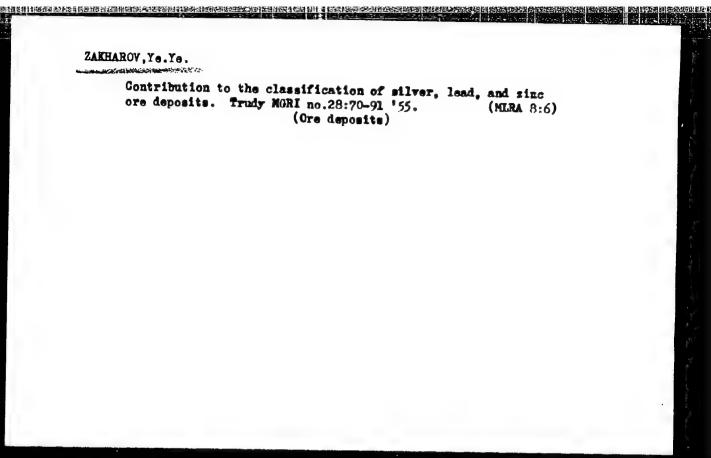
ZAKHAROV, Yevgeniy Evgen'evich

The Karpushinskii copper and zinc deposits in the Central Urals. Moskva, Izd-vo Akademii nauk SSSR, 1936. 110 p. (49-43264)

TN446.R923



25 27 15/1	il resources prospecting. Trudy MGRI no.26: (MIRA 8:12)
(Mines and mine	eral resouces Study and teaching)
	Mos geological Prospection Inst en 5. Adzhoukedze
	Inst in 5. Ardshouledge
	•



ZAKHAROV, Ye. Ye. Ye. PHASE I BOOK EXPLOITATION SOV/1923

3(5) 63

Akademiya nauk SSSR. Otdeleniye geologo-geograficheskikh nauk.

Komissiya po probleme "Zakonomernosti razmeshcheniya poleznykh tekonomernosti"

Zakonomernosti razmeshcheniya poleznykh iskopayemykh (Regularities in the Distribution of Mineral Deposits Vol 1. Moscow, Izd-vo AN SSSR, 1958. 532 p. Errata slip inserted. 2,500 copies printed.

Resp. Ed.: N.S. Shatskiy, Academician; Editorial Board: N.S. Shatskiy, Academician, N.A. Belyayevskiy, Academician, D.I. Shcherbakov, Academician, N.A. Belyayevskiy, G.A. Sokolov; N.N. Dolgopolov, O.D. Levitskiy, Yu.M. Pushcharovskiy, G.A. Sokolov; Ed. of Publishing House: G.I. Nosov; Tech. Ed.: I.N. Guseva

PURPOSE: This book is intended for geologists and petrographers, particularly those interested in the worldwide distribution of minerals and the reasons underlying their occurrence.

card 1/6

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963610005-0"

sov/1923 Mineral Deposits (Cont.) COVERAGE: On the basis of particular regional studies this book attempts to establish the rules governing the distribution of metallic and non-metallic ore deposits. The work includes articles on the metallogeny of individual minerals, on broad methodological problems, and on the possibility of predicting the occurrence of a mineral in the USSR on the basis of its occurrence throughout the world. Six maps depicting the distribution of a particular mineral throughout the world are included with the work. References accompany each article. TABLE OF CONTENTS 3 Guiding Principles in the Study of the Regularities in the Foreword Distribution of Major Ore Deposits in the Barth's Crust as Bases for Predicting Their Occurrence in the USSR Kheraskov, N.P. Tectonics as a Factor in Studying the Regularities 14 in the Distribution of Ore Deposits in the Earth's Crust **card** 2/6

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963610005-0"

sov/1923	
Mineral Deposits (Cont.) Zakharov, Ye.Ye. Certain patterns in the Regional-geologic Zakharov, Ye.Ye. Certain patterns in the Regional-geologic Distribution of Ferrous and Non-ferrous Ore Deposits Distribution of Ferrous and Non-ferrous Sedimentary Formations	92
Pavlovskiy, Ye.V., and V.G. Belichenko. Sedimentary Formations Pavlovskiy, Ye.V., and V.G. Belichenko. Sedimentary Formations Pavlovskiy, Ye.V., and V.G. Belichenko. Sedimentary Formations Pavlovskiy, Ye.V., and V.G. Belichenko. Sedimentary Formations Pavlovskiy, Ye.V., and V.G. Belichenko. Sedimentary Formations Pavlovskiy, Ye.V., and V.G. Belichenko. Sedimentary Formations Pavlovskiy, Ye.V., and V.G. Belichenko. Sedimentary Formations Pavlovskiy, Ye.V., and V.G. Belichenko. Sedimentary Formations Pavlovskiy, Ye.V., and V.G. Belichenko. Sedimentary Formations Pavlovskiy, Ye.V., and V.G. Belichenko. Sedimentary Formations Pavlovskiy, Ye.V., and V.G. Belichenko. Sedimentary Formations Pavlovskiy, Ye.V., and V.G. Belichenko. Sedimentary Formations Pavlovskiy, Ye.V., and Y.G. Belichenko. Sedimentary Formations Pavlovskiy, Ye.V.,	123
and Related Ore Deposits	142
Ruznetsov, Yu.A. Magmatic Formations Ruznetsov, Yu.A. Magmatic Formations The Conditions of the Deposition of Regenerated	160
Deposits Matteyenko, V.T., and Ye.T. Shatalov. Disjunctive Dislocations, Magmatization, and Mineralization in Northeastern USSR Magmatization, and Mineralization of the Metallogeny of	169
Magmatization, and Mineralization Magmatization Magmatization, and Mineralization Magmatization Magm	241
card 3/6	

sov/1923	
Managa Denosits (Cont.)	
m a Contain Magmatic and Netallogenetic	252
Staritskiy, Yu.G. Certain hos Areas Characteristics of Platform Areas	
Pinus, G.V., and V.A. Kuznetsov. Regularities in the decling Structure and the Metallogeny of the Altay-Sayan Hyperbasic Regularities in the decling Structure and the Metallogeny of the Altay-Sayan Hyperbasic Regularities in the declination of the Altay-Sayan Hyperbasic Regularities R	275
Smirnov, V.I., and L.M. Ryzhenko. Some Features in the	289
Kuznetsov, V.A. Regularities in the Formation and Spatial Distribution of Mercury Deposits in the Altay-Sayan	302
Bogatskiy, V.V. Regularities in the Distribution of literature Concentrations and its Metallogenetic Characteristics as	31
Loginov, V.P. Regularities in the Localization of Pyritic Deposits in the Central Urals and Certain Problems of Their Genesis	33
Card 4/6	

isation in the Caledonians of Distribution of Co.	
isation in the Caledonians of Southern of Cobalt Mineral Approved Pormet Eypes of Manganese and Perro-manganese Machaturyan, R.A. Book	
Deposits and in The Product	3 89
	407
	416
approach in Metali	426
urman, I.M. The Pacific and Mediterranean Boric Zones	462
	470

ZAKHAROV, Ye.Ye.

1. Heskevskiy geelege-rasvedechnyy institut im. Ordshenididse. (Ore deposits)

ZAFHAROV, Ye. Ye.

AUTHOR:

Pushcharovskiy, Yu.M.

11-58-7-12/12

TITLE:

The Activity of the Interdepartmental Commission on the Problem of "Regularities of Occurrence of Mineral Deposits" in 1957 (Deyatel'nost' mezhduvedomstvennoy Komissii po probleme "Zakonomernost' razmeshcheniya poleznykh iskopayemykh" v 1957 g.)

PERIODICAL:

Izvestiya Akademii nauk SSSR, Seriya geologicheskaya, 1958,

Nr 7, pp 117-120 (USSR)

ABSTRACT:

The organization of an interdepartmental commission for the study of the regularities of occurrence of mineral deposits was suggested by Academician N.S. Shatskiy in 1953, and was created in 1955 by the Presidium of the Academy of Sciences of the USSR. For example, general metallogenic problems, as well as questions of occurrence of important minerals were studied by the commission in the eastern part of the USSR. General metallogenic problems were reported by Ye.Ye. Zakharov of the Moscow Geologic Research Institute). He demonstrated metallogenic maps of the world on which were shown occurrences of ore formations of iron, manganese, chromium, silver, lead, zinc, tin and copper on the background of the largest tectonic elements of the earth, isolated in function of the age of the folding. These maps helped to indicate some general regulari-

Card 1/6

ZAKHAROV, Ye.Ye.

Practice of metallogenic zonation of Europe. Zakonom. razm. polezn. iskop. 2:5-24 *59. (MIRA 15:4)

1. Moskovskiy geologo-razvedochnyy institut imeni Ordzhonikidze. (Europe--Ore deposits)

ZAKHAROV, Ye.Ye.

Metallogeny of the Kara-Tau. Zakon.razm.polezn.iskop. 3:38.-417 '60. (MIRA 14:11)

1. Moskovskiy geologo-razvedochnyy institut imeni S.Ordzhonikidze. (Kara-Tau-Ore deposits)

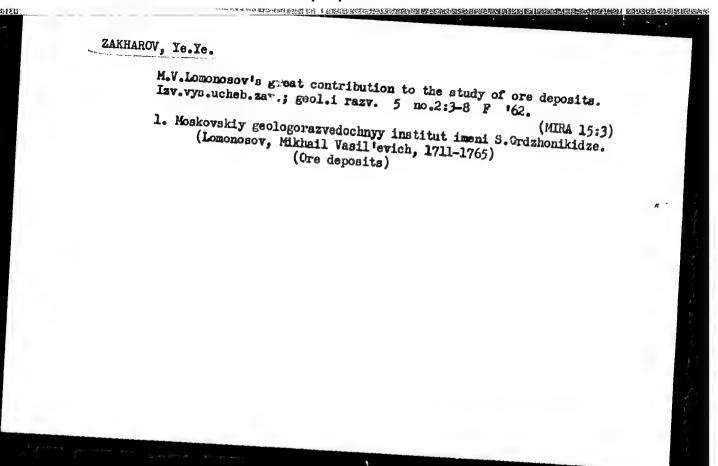
जाध्यक्ष**ा**

Clere, I N.; INVELVEY, A.K.; A.EHARLY, Te.Ye., otv. p.d.

.eology and prospective for placer deposits, 1727 Co.

logita, poiski i razvedka rossyrovkh mestorozhdenii, 1922.

(MRA 17.2)



VAKHROMEYEV, Sergey Andreyevich; ZAKHAROV, Ye.Ye., red.; VOL'FSON, F.I., red. BEREZOVSKAYA, L.I., red. izd-va; MAKEYEV, V.I., red. izd-va; IVANOVA, A.G., tekhn. red.

[Mineral resources, their classification and formation] Mestorozhdeniia poleznykk iskopaemykh, ikh klassifikatsiia i usloviia obrazovaniia. Pod lit-ry po gel. i okhrane nedr, 1961. 462 p.

(Mines and mineral resources) (MIRA 14:7)

SMIRNOV, V.I., glav. red.; ZAKHAROV, Ye.Ye., red.; MAGAK'YAN, I.G., red.; SOKOLOV, G.A., red.; YAKOVLEV, G.F., red.

[Problems of ore genesis] Problemy genezisa rud. Moskva, Nedra, 1964. 384 p. (Its Doklady sovetskikh geologov, (MIRA 17:8)

1. International Geological Congress. 22d, 1964.

new Dilhi

MEDVEDEVA, I.Yo.; PETROV, V.P.; KABANOVA, Ye.S.; MARFUNIN, A.S.; TSVETKOV, A.I.; PILOYAN, G.O.; MARFUNIN, A.S., doktor geol.-miner.nauk, otv. red.; ZAKHAROV, Ye.Ye., prof., glav. red.

[Achievements of science: Geochemistry, mineralogy, petrography, 1963-1964] Itogi nauki: geokhimiia, mineralogiia, petrografiia, 1963-1964. Moskva, Akad. nauk SSSR. In-t nauchnoi informatsii, 1965. 235 p. (MIRA 19:2)

ACC NR. AN7005950

SOURCE CODE: UR/9012/67/000/J52/0004/0004

AUTHOR:

Zakharov, Yu.

ORG: none

TITLE: New fishing ship

Pravda, no. 52, 21 Feb 67, p. 4, cols. 5-7 SOURCE:

TOPIC TAGS: fishing ship, ship

ABSTRACT: The fishing ship "Vostok" is being built by Chief Designer A. A. Andreyuk. It will be 225 meters long, 28 meters wide, and 28 meters high. Its cruising speed will be 18.5 knots and it will have 14 seiners. It will be able to stay at sea 125 days and will carry about 600 people. It will have a 26,000 hp twin propeller steam turbine installation. [NC]

SUB CODE: /3 SUBM DATE: none/ ATD PRESS: 5115

Card 1/1

UDC: none

SAKHAROV, Ye.; ZAKHAROV, Yu.

The training of personnel ensures success. Fin. SSSR 20 no.2:
46-48 F '59. (MIRA 12:4)

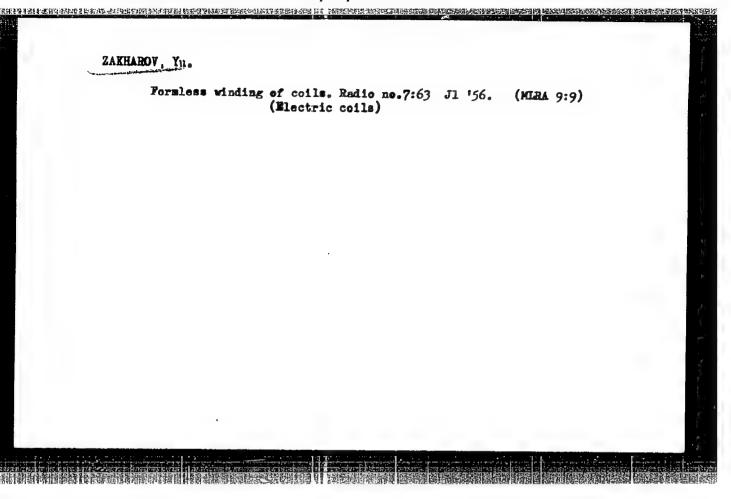
1. Zamestitel' ministra finansov Ukrainskov SSR (for Sakharov).
2. Starshiy inspektor upravleniya kadrov i uchebnykh savedeniy Ministerstva finansov SSR (for Zakharov).

(Ukraine--Finance)

VAYSBURD, D.: ZAKHAROV, Yu.

Conference on the problem "Changes in the properties of materials caused by irradiation." Atom. energ. 13 no.5:497-498
N 162. (MIRA 15:11)

(Materials, Effect of radiation on)



ZAKHAROV VII A mayor mod. sluzhby

Importance of certain neurological symptoms in diagnosis. Voen.-med shur. no.12:52-55 D '55 (MIRA 12:1)

S/089/62/013/005/012/012 B102/B104

AUTHORS:

Vaysburd, D., Zakharov, Yu.

TITLE:

Conference on the problem "Izmeneniye svoystv materialov pod deystviyem izlucheniy" (Radiation-induced changes in material

properties")

PERIODICAL: Atomnaya energiya, v. 13, no. 5, 1962, 497-498

TEXT: The conference was held in November 1961 at the Tomskiy politekhnicheskiy institut (Tomsk Polytechnic Institute) (TPI). Studies at this institute, at the Sibirskiy fiziko-tekhnicheskiy institut (Siberian Physicotechnical Institute)(SFTI), and at the Tomskiy (Siberian Physicotechnical Institute)(SFTI), and at the Tomskiy gosudarstvennyy universitet (Tomsk State University) (TGU) were reported and discussed. Scientists attended from Moscow, Irkutsk, Novosibirsk, Tashkent and Tbilisi. The main fields covered were: Determination of radiation resistance in dependence on the chemical composition of the material; physics of radiation defects and microprocesses; chemical radiation effects; apparatus for investigating radiation effects. The following scientists gave reports: A. A. Vorob'yev (TPI), radiation effects

Card 1/3

s/089/62/013/005/012/012 B102/B104

Conference on the problem ...

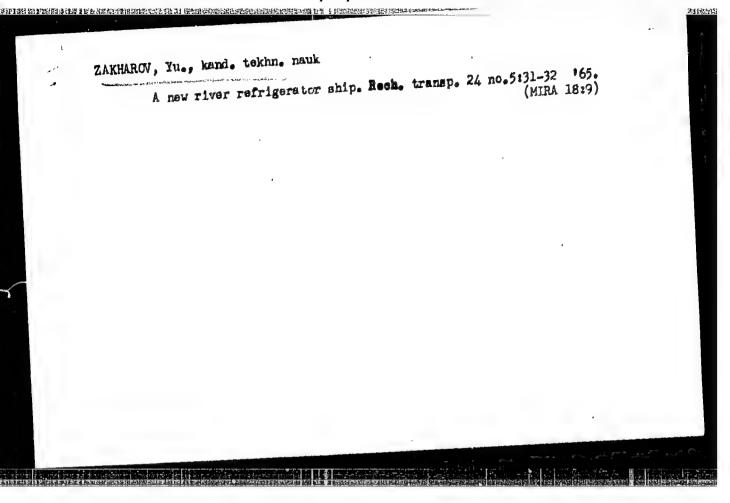
in ion crystals; A. V. Kuz'mina (TPI), calorimetric determination of energy stored in gamma-irradiated NaCl (1.47 cal/g); P. A. Savintsev, I. T. Berzina, A. A. Botaki, A. F. Naumov (TPI), irradiation-induced changes in physical properties of ion crystals; A. A. Vorob'yev, Ye. K. Zavadovskaya (TPI), radiation resistance of ion crystals as dependent on structure and composition; S. K. Salo (TPI), F-center concentration in X-ray-irradiated alkali halogenides; I. Ya. Melik-Gaykazyan, L. V. Grigoruk, M. I. Ignat'yeva (TPI), X-ray induced F-center formation of alkali halogenides as dependent on the bivalent-metal impurity content; B. V. Budylin and A. A. Vorob'yev (TPI), spontaneous F-center formation in neutron-irradiated and annealed ion crystals; A. K. Berzin, S. L. Kashchuk (TPI). β -radiation attenuation as reduced by small doses of neutron irradiation; M. A. Krivov, S. V. Molyanov, A. P. Vyatkin, V. I. Domnin, S. V. Mal'tsev, B. V. Mashkova (SFTI), effect of X- and /-rays on semiconductor properties; V. M. Nesterov, Ye. S. Nesmelova, T. Kh. Mikhaylova, N. I. Ol'shanskaya (SFTI), radiation effects on crystalline polymers, rubbers, resin, and PVC plastics; V. V. Vorob'yev (TPI), radiation effects in ion crystals (review); V. V. Boldyrev, A. N. Oblivantsev, effect of previous X-ray irradiation on the thermal Card 2/3

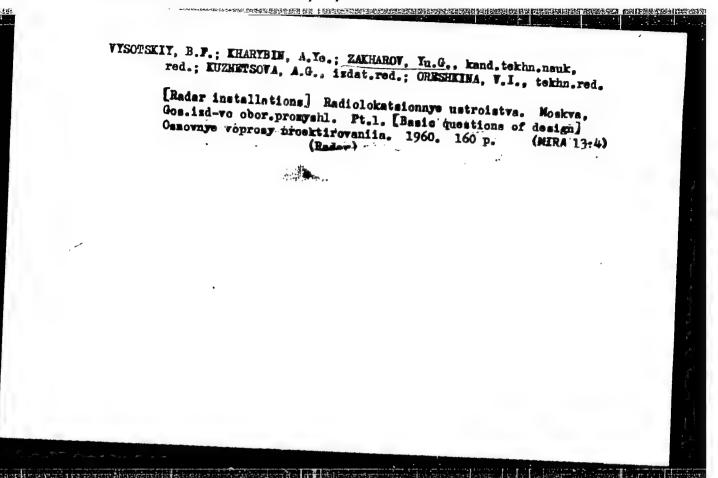
S/089/62/013/005/012/012 B102/B104

Conference on the problem ...

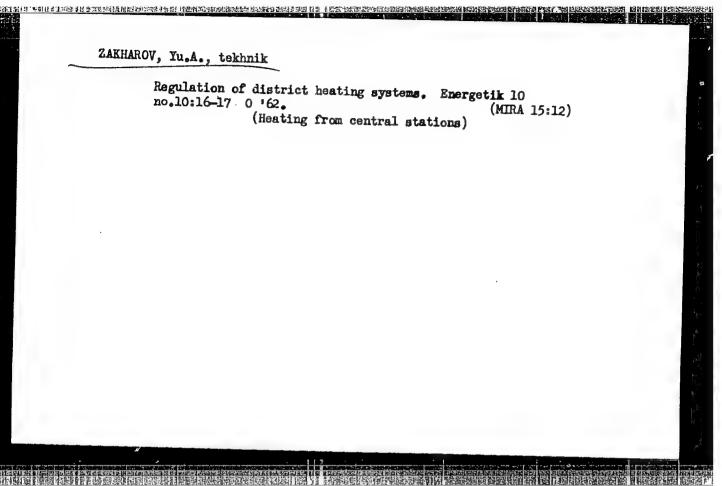
disintegration of permanganates; V. V. Boldyrev, Yu. A. Zakharov, V. I. Yeroshkin, effect of impurities on thermo-, photo-, and radiation resistance of ionic salts; L. S. Sokolov (TPI), output and measurement of a cyclotron beam for material irradiation; B. A. Kononov and V. I. Rudenko (TPI), new design of apparatus for measuring the betatron-electron absorption coefficient in crystals; B. A. Kononov, S. A. Kuznetsov, Yu. P. Tsurukin (TPI), measurements of electric conductivity of irradiated samples in vacuo (10⁻⁵mm Hg, -150-+150^oC).

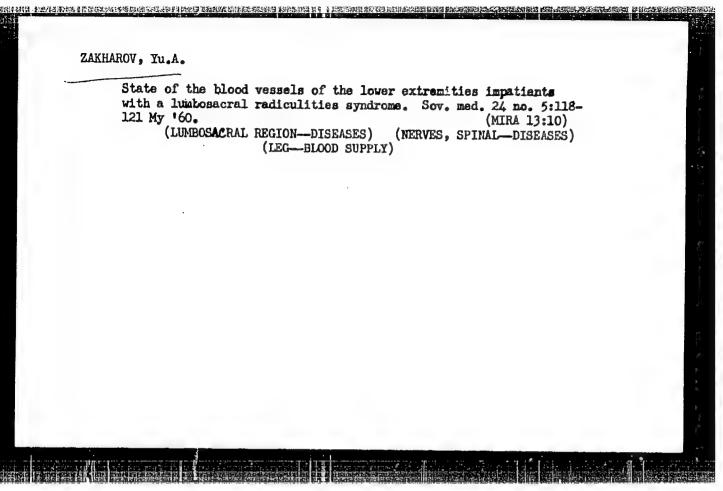
Card 3/3





,一个人,一个人的一个人,我们就是一个人的一个人,我们就是一个人的一个人,我们就是一个人的一个人的一个人,他们也没有一个人的一个人的一个人,也可以不是一个人的一 ZAKHAROV, Yu.F., inchener. · 1000年中央中央公司公司 Calculator for measuring cable length in the laying process. Energetik 5 no.8:31-32 Ag '57.
(Electric cables) (MIRA 10:10)





ZAKHAROV, Yu.A.

Clinical testing of the new preparation paramyon in diseases of the nervous system. Zhur.nevr.psikh. 55 no.4:291-295 '55. (MIRA 8:7)

1. Voyemo-morskaya meditsinskaya akademiya.
(NERVOUS SYSTEM, diseases,
ther., musc. relaxant paramyon)
(MUSCLE RELAXANTS, therapeutic use,
paramyon in nervous system dis.)

ZAKHAHO7, Yu. A.

The significance of Certain Neurological Symptoms for -iagnostic Purposes.

VOYENNO-MEDITSINSKIY ZHURNAL (MILITARY MEDICAL JOURNAL), No 12, 1955. p. 52.

CIA-RDP86-00513R001963610005-0 "APPROVED FOR RELEASE: 09/19/2001

sov/63-4-2-39/39

5(2)

Boldyrev, V.V., Zakharov, Yu.A.

AUTHORS: TITLE:

On the Effect of Admixtures on the Rate of Thermal Decomposition of merchanistic contraction and state of the contraction

Silver Oxide

PERIODICAL:

Khimicheskaya nauka i promyshlennost, 1959, Vol 4, Nr 2,

pp 287-288 (USSR)

ABSTRACT:

The kinetics of thermal decomposition was investigated by means of a quartz balance. It has been shown that the decomposition rate of pure silver oxide is increased in the beginning, and takes a gradual course later. The introduction of a cadmium addition first accelerates the decomposition and then reduces it. On the whole, the decomposition is slower than in the pure substance. The introduction of mercury accelerates the decomposition. The additions affect either the lattice or the ionic and electron processes of decomposition. The accelerating influence of mercury is explained by its transition from the bivalent

to the monovalent state.

Card 1/2

There is 1 graph and 3 Soviet references.

On the Effect of Admixtures on the Rate of Thermal Decomposition of Silver Oxide sov/63-4-2-39/39

ASSOCIATION: Tomskiy gosudarstvennyy universitet imeni V.V. Kuybysheva (Tomsk State

SUBMITTED:

December 29, 1958

Card 2/2

STREET &

USCOMI-DC-61.409

BOLDYREV, V.V.; ZAKHAROV, Yu.A.

Anisotropy of the rate of decomposition of solids. Part 1:
Anisotropy of the rate of dehydration of potash alums. Zhur.
Anisotropy of the rate of dehydration of potash alums. (MIRA 14:7)
fiz. khim. 34 no.2:446-451 F '60.

1. Tomskiy gosudarstvennyy universitet.
(Alum) (Dehydration (Chemistry))

30920

54600

S/195/01/002/003/005/009 B030/E452

AUTHORS:

Zakharov, Yu.A., Boldyrev, V.V. and Alekseyenko, A.A. Influence of the addition of cadmium on the velocity of thermal and radiochemical decomposition of silver

carbonate

PERIODICAL: Kinetika i kataliz, v.2, no.3, 1961, 365-367

The thermal decomposition of silver carbonate, both pure and with addition of 2.5 mole % cadmium carbonate, has been studied at 151° gravimetrically, unirradiated, and also with X-irradiation from apparatus PVN-2 (RUP-2) using 200 kV and I_a of 20 mA. The salts were formed by double decomposition. In the thermal decomposition, the specimens were suspended from a quartz spring balance with a sensitivity of 4 x 10-5 g in a chamber thermostatted to \pm 0.2°C. In the radiochemical decomposition, the kinetics were measured photometrically by the change in colour of the specimens. The object of the work was to study an example of decomposition of a solid solution where bonds in the anionic or cationic lattice components were broken; most examples hitherto have concerned only rupture of like bonds, The results are shown in the figure where a is the fraction of specimen reacted. It is seen that Card 1/32

经指针动品公司和证明 [1985] 电影对南波及处理的经验,非常知识的是是一种原则的影響的影響。

30920 S/195/61/002/003/005/009 E030/E452

Influence of the addition ...

the addition of defects in any way always increases the decomposition rate; this, coupled with the X-ray finding that the addition of Cd++ deforms the cation bonds shows that defect formation is responsible for the increased decomposition. This is in contrast to the data on silver oxalate, where decomposition is slowed up by addition of tadmium which hinders only the electronic and ionic transfers leading to decomposition. There are I figure, 2 tables and 15 references: 11 Soviet and 4 non-Soviet. The references to English language publications read at follows: Ref. 5; L. Suchow: S. Hersh, J. Phys., Chem., 7.57, 438, 1953; Ref. 7; P. Gray, F. Waddington, Proc. Roy, Soc., A241, 110, 1957; Ref. 14; J. Mitchell, Phil. Magazine, 7, 40, 248, 1949, Ref. 15; J. Thomas, F. C. Tompkins, Proc. Roy, Soc., 7, 209, 550, 1951,

ASSOCIATION: Tomskiy politekhricheskiy institut im. S.M.Kirova (Tomsk Polytechnical Institute imeni S.M.Kirov)

SUBMITTED: October 17, 1960

Card 2/3 2

BOLDYREV, V.V.; YEROSHKIN, V.I.; ZAKHAROV, Yu.A.

Mfect of cadmium and mercury admixtures on the rate of thermal decomposition of silver oxalate. Izv.vys.ucheb.zav.; khim.i khim tekh. 3 no.1:33-35 '60. (MIRA 13:6)

1. Kafedra neorganicheskoy khimii Tomskogo gosudarstvennogo universiteta imeni V.V. Kuybysheva.

(Silver oxalate)

(Cadmium) (Mercury)

\$/844/62/000/000/120/129 D207/D307

Boldyrev, V. V., Zakharov, Yu. A., Yeroshkin, V. I. and AUTHORS:

Tronov, A. B.

了。 1987年 - 19

Effect of preliminary irradiation on the rate of thermal TITLE:

decomposition of silver oxalate and carbonate containing

admixtures

Trucy II Vsesoyuznogo soveshchaniya po radiatsionnoy khimii. Ed. by L. S. Polak. Moscow, Izd-vo AN SSSR, 1962, SOURCE:

693-698

TEXT: Pure Ag_2CO_3 , pure $Ag_2C_2O_4$ and the solid solutions 97.5% $Ag_2^{C_2^{O_4}} + 2.5\% cac_2^{O_4}, 97.5\% Ag_2^{C_0} + 2.5\% caco_3, 95\% Ag_2^{C_2^{O_4}} +$ 5% CdC₂O₄ were subjected to (rays, x rays and uv radiations. A study was made of the effect of the cadmium impurity on (1) thermal decomposition after irradiation of the carbonate and oxalate, and (2) radiolysis of these two compounds. Preliminary irradiation with

Card 1/2

Effect of preliminary ...

5/844/62/000/000/120/129 D207/D307

co⁶⁰ rays (50 c source) or uv radiation from a MPK-7 (PRK-7) lamp accelerated subsequent thermal decomposition of pure oxalate at 158°C but this radiation effect was reduced on addition of Cd. X rays from a 1500 (1 BPM-200) tube accelerated subsequent thermal decomposition of pure carbonate at 151°C and this acceleration was intensified by adding Cd. Cadmium reduced the photolytic action of rays and uv in the case of the oxalate but it intensified the x ray photolysis of the carbonate. The opposite effects of cadmium in these two compounds are due to the difference in the mechanism of decomposition: in the oxalate the anion-cation bonds are broken and metallic silver is produced; in the carbonate the internal bonds are severed in the CO₃ ion and Ag₂O is formed. Cadmium acts

by producing deformations and lattice defects as well as by taking part in electronic and ionic processes of decomposition. There are 3 figures and 5 tables.

ASSOCIATION: Tomskiy politekhnicheskiy institut im. S. M. Kirova (Tomsk Polytechnic Institute im. S. M. Kirov)

Card 2/2

BOLDYREV, V.V.; PINAYEVSKAYA, E.N.; BOLDYREVA, A.V.; ZAKHAROV, Tu.A.; KONYSHEV, V.P.

Effect of preliminary irridation and chemical treatment on the thermal decomposition rate of silver permanganate. Kin. 1 kat.2 no.2:184-187 Mr-Ap '61. (MIRA 14:6)

1. Tomskiy politekhnicheskiy institut imeni S. M. Kirova. (Silver permanganate)

÷,

BOLDYREV, V.V.; PINAYEVSKAYA, E.N.; BOLDYREVA, A.V.; ZAKHAROV, Yu.A.; KONYSHEV, V.P.

Effect of preliminary irradiction and chemical treatment on the thermal decomposition rate of silver permanganate. Kin. 1 kat. 2 no.2:184-187 Mr-Ap '61. (MIRA 14:6)

1. Tomskiy politekhnicheskiy institut imeni S. M. Kirova. (Silver permanganate)

ZAKHAROV, Yu.A.; BOLDYREV, V.V.; LYKHIN, V.M.; VOTINOVA, L.A.;
SAVELIYEV, G.G.; BREGER, A.Kh.

Study of the effect of preliminary irradiation on the thermal degradation of silver oxalate containing cadmium admixture.

Dokl.AM: SSSR 145 no.1:122-124 Jl 162. (MIRA 15:7)

l. Nauchno-issledovateliskiy institut yadernoy fiziki, elektroniki i avtomatiki pri Tomskom politekhnicheskom institute imeni S.M.Kirova i Fiziko-khimicheskiy institut imeni L.Ya.Kaprova. Predstavleno akademikom M.M.Dubininym.

(Silver oxalate) (Cadmium) (Radiation)

BOLDYREV, V.V.; ZAKHAROV, Yu.A.; LYKHIN, V.M.; VOTINOVA, L.A.

Effect of the addition of cadmium ions on the thermal stability of silver oxalate. Kin.i kat. 4 no.5:672-682 S-0 '63. (MIRA 16:12)

1. Nauchno-issledovatel'skiy institut yadernoy fiziki, elektroniki i avtomatiki pri Tomskom politekhinicheskom institute imeni Kirova.

"APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001963610005-0

L 21454-65 ENT(1)/EPK(s)-2/EEC(t)/HEC(b)-2 Pt-10 IJP(c) GG

ACCESSION NR: AP5002575

8/0076/64/038/012/2882/2888

AUTHOR: Zakharov, Yu. A.; Kabanov, A.A.

TITLE: The effect of admixtures of plumbous and carbonate ions on the conductivity, permittivity and dielectric loss angle of silver azide

SOURCE: Zhurnal fizicheskey khimit, v. 38, no. 12, 1964, 2882-2888

TOPIC TAGS: silver azide, plumbous ion, carbonate ion, electrical conductivity, permittivity, dielectric loss angle, photochemical stability, photography

ABSTRACT: The effect of additions of Pb²⁺ and CO₃²⁻ ions on the conductivity, permittivity and dielectric loss angle of silver azide was studied experimentally in order to prove the theory proposed by Zakharov et al. for the change in photochemical stability observed on cocrystallization of silver azide with Ag₂CO₃ (Kinetika i kataliz v. 5, 6, 1964). Speciments containing 0.2-6 mol. % Pb²⁺ or 0.1-5 mol. % CO₃²⁻ were prepared. The addition of CO₃²⁻ lons increased the conductivity by up to 30%, with saturation of the effect reached at a concentration of about 1 moi. %; with increasing concentrations of Pb²⁺ the conductivity decreased and the conductivity isotherms went through a minimum at about 1.5 mol. % Pb²⁺. The dielectric constant and loss angle, measured with an illustrated apparatus de-

Card 1/2

L 21/15/1-65

ACCESSION NR: AP5002575

signed for explosive compounds, increased linearly with the concentration of ${\rm CO_3^2}$ and passed through a minimum at approximately 0.8 mol. % ${\rm Pb^{2+}}$. The experimental results indicate that solid substitution solutions with ionic conductivity are formed in the systems ${\rm AgN_3-PbN_6}$ and ${\rm AgN_3-Ag_2CO_3}$, in agreement with the proposed mechanism. Introduction of ${\rm CO_3^-}$ or ${\rm Pb^{2+}}$ is shown to cause an increase or decrease in the number of interstitial Ag cations, respectively, and to promote or retard, respectively, the photochemical decomposition of silver azide. "The authors thank V.P. Zaytsev for his help with the measurements." Orig. art. has: 6 ligures and 5 formulas.

ASSOCIATION: Tomskiy politelinicheskiy institut im. S.M. Kirova (Tomsk polytechnical

SUBMITTED: 30Nov63

ENCL: 00

SUB CODE: IC, ES

NO REF SOV: 006

OTHER: 008

Card 2/

SAVEL: YEV, G.G.; ZAKHAROV, Yu.A.

Changes in the physiocochemical properties of solids produced by additives. Part 2: Effect of semiconducting contacts on the thermal stability of silver oxalate. Izv. vys. ucheb. zav.; khim. i khim. tekh. 7 no.5:768-773 64 (MIRA 18:1)

l. Kafedra radiatsionnoy khimii Tomskogo politekhmicheskogo instituta imeni S.M. Kirova.

ZAKHAROV, Yu.A.; SAVEL'YEV, G.G.; EOLDYREV, V.V.; VOTINOVA, L.A.

Changes in the physicochemical properties of solids under the effect of additions. Part 3: Some properties of silver azide containing Pb and CO additions. Kin. i kat. 5 nc.5: (MIRA 17:12)

1. Tomskiy politekhnicheskiy institut imeni Kirova.

ZAKHAROV, Yu.A.; SAVEL'YEV, G.G.

Thermal decomposition of silver sulfite containing Pb++ and VO₃ admixtures. Kin. i kat. 5 no.2:345-347 Mr-Ap 64. (MIRA 17:8)

1. Tomskiy politekhnicheskiy institut imeni Korova.

ZAKHAROV, Yu.A.; KABANOV, A.A. (Tomak)

Change in the conductivity, dielectric constant and losses in silver azide by Pb²⁺ and CO₃ admixtures. Zhur. fiz. khim. 38 no.12:2882-2888 D '64. (MIRA 18:2)

1. Tomskiy politekhnicheskiy institut imeni S.M. Kirova.

SAVEL'YEV, G.G.; ZAKHAROV, Yu.A.; SPITSA, V.B.

Effect of the electric field on the rate of thermal decomposition of silver oxalate and azide. Zhur.fiz.khim. 39 no.11:2808-2810 N 165.

1. Tomskiy politekhnicheskiy institut imeni S.M.Kirova.

ZAKHAROV, Yu.A.; KABANOV, A.A.; TRUBITSYN, A.M.

部科技们,特别创新的,使更用的实验和包括的对象和问题的关系。如此的一种,也可以对于一种,也可以是一种的一种,可以是一种的一种,可以是一种的一种。

Effect of a fixed electric field on the thermal decomposition of silver oxalate. Izv. vys. ucheb. zav.; khim.i khim.tekh. 8 no.42529-532 '65. (MIRA 18:11)

1. Tomskiy politekhnicheskiy institut imeni Kirova, kafedra radiatsionnoy khimii.

ZAKHAROV, Yu.A.; SAVELIYEV, G.G.

Effect of admixtures on certain physicochemical properties of silver oxalate. Part 5: Photolysis, radiolysis, and thermal decomposition of silver oxalate. Kin. i kat. 6 no.4:611-618 J1-Ag *65. (MIRA 18:9)

1. Tomskiy politekhnicheskiy institut imeni S.M.Kirova.

ZAKHAROV, Yu.A.; SAVEL'YEV, G.G.; THURAVIEV, V.K.; BOLDYREV, V.V.

Thereas in the physicochemical properties of solids in the presence of admixtures. Part 4: Thermal decomposition of silver exalste. Kin.i kat. 6 no.3:415-423 My-Je 165. (MIRA 18:10)

3. Tomskly politekhnicheskly institut imen: Kirove,

1. 1.1.21.7.66 FSS-2 /FUT(1)/FUT(m) AEC NA AR6025369 SOURCE CODE: UR/0285/66/000/004/0022/0022 AUTHOR: Averkiyev, S. M.; Dorofeyev, V. M.; Zakharov, Yu. A. ORG: none TITLE: A brake for testing axial microturbines SOURCE: Ref. zh. Turbostroyeniye, Abs. 4, 49, 137 REF SOURCE: Tr. Kuybyshevsk. aviats. in-t, vyp. 22, 1965, 15-21 TOPIC TAGS: microturbine, axial microturbine, brake, test brake/UIMT-6 brake ABSTRACT: A study has been made of the design, characteristics, and operational features of the UIMT-6 brake manufactured by the Thermodynamic Laboratory of the Kuybyshev Aviation Institute for Research on Microturbines and their Components. [Translation] [FM] UB CODE: 13/ Cord 1/1 INT

WW/JW/JWD/RM ETT(m)/EVP(j)/T E 30996-66 SOURCE CODE: UR/0195/66/007/001/0055/0061 AP6007774 ACC NR: 42 AUTHOR: Zakharov, Yu. A.; Savel'yev, G. G. B ORG: Tomsk Polytechnic Institute im. S. H. Kirov (Tomskiy politekhnicheskiy institut) TITLE: Changing the physicochemical properties of solids by means of admixtures. Part 6. Role of contact phenomena in the catalysis of thermal decomposition | of solids by semiconductor admixtures SOURCE: Kinetika i kataliz, v. 7, no. 1, 1966, 55-61 TOPIC TAGS: semiconducting admixture, electron work function, solid state reaction, silver azide, thermal decomposition, lead azide, potassium perchlorate, ammonium perchlorate ABSTRACT: The effect of heterophase semiconductor impurities having donor-acceptor properties (NiO, Cu₂O, ZnO, CdO, Bi₂S₃, Co₂O₃, Fe₂O₃, Ag₂S) on the rate of thermal decomposition of ionic salts (PtN₆, KClO₄, NH₄ClO₄, Ag₂C₂O₄, and AgN₃) was studied. The heterophase catalysis of solid state reactions is treated in relation to the contact phenomena at the boundary between the catalyst and the reacting solid. The ef-UDC: 541.17 Card 1/2